

Dr. Mahalingam College of Engineering and Technology, Pollachi-3.

Office of Dean Research & Innovation

Report on the “Knowledge Sharing Session on Establishment of Research Lab”

Date: 22.11.2024

Venue: A117 Dean R&I Conference Hall

Resource person: Dr. Prof. M. Alagar, PSG Institute of Technology & Applied Research, Coimbatore

The Knowledge Sharing Session on "**Establishment of Research Lab** " was held on **22nd November 2024** from **09:30 AM to 04:30 PM** at Venue **A117**. The session started with presentation of Dean R&I about the “Initiatives and Impacts of Research Activities of the MCET”. The Resource person **Dr. Prof. M. Alagar** provided guidance in establishing research laboratories across various domains and discussed the research lab's objectives and commitments as follows:

1. Department wise presentation was done by the faculty members and suggestions for the establishment were given. For core engineering and advanced science research labs have proposed high cost equipment's. Before purchasing high cost equipment's it is recommended that, the characterization & Test charges shall be provided under contingency head. And it is recommended / suggested to procure the high budget equipment's year wise based on the utilization.
2. It is suggested that the research labs among various departments are classified into 4 research lab clusters and are as follows,

- 1. Core Engineering Research Labs (Mech, Auto & Civil)**
- 2. Advanced Sciences Research Labs (S&H)**
- 3. Electrical & Communication Engineering Research Labs (ECE, EEE, ACT & VLSI)**
- 4. Advanced Computing Research Labs (IT, CSE, MCA, AI&DS, AIML and Cy.Sec)**

3. For both Core Engineering and Advanced Science Research Labs, research team members are insisted to generate the revenue of amount Rs. 10 Lakhs per year and produce the research commitments followed in the upcoming points. So that the total cost of the equipment's procured are covered within 5 years of time.
4. The coverage of total investments of the research labs are as follows:

Return by cash from external sources	Return by kind from internal sources
Consultancy Training programs & Testing	Q1 Journal (2 Lakhs per paper) SCIE/Q2 Journal (1 Lakh per paper) Scopus Journal (Rs.50,000 per paper) Utility patent granted (3 Lakhs per patent) Ph.D Work Completed (5 Lakhs per scholar) P.G Project (Rs.50,000) UG Project (Rs.25,000) One Credit Course (Rs.50,000) (Batch- 30 students) Start-up/Incubation registered (1 Lakh)

5. The research commitments/outcomes of the faculty are as follows:

No. of publications	No. of Utility patents
2 Q1 paper per Faculty	1 utility patent per Faculty
1 Q1 paper per TRA	1 utility patent per TRA

6. The external funded projects have to be identified and submitted to the various agencies through research labs.
7. The research teams are suggested to carry out various community based programmes which creates societal value. The IT stream research teams are suggested to develop the in-house software for various sectors.
8. The identification of research labs are as follows:


Name of the Cluster	Responsible person for Space Identification	<ul style="list-style-type: none"> Identification of space for proposed research labs to be done in cluster wise. HoDs are informed to create layout plan of research lab and to be submitted to office of Dean R&I by 30.11.2024.
Core Engineering Research Labs (Mech, Auto & Civil)	Dr.Rama Thirumurugan, HoD/MECH Dr.D.Shanmugam, HoD/AUTO Dr.P.S Kothai, HoD/CIVIL	
Advanced Sciences Research Labs	Dr. L. Chitra, HoD/S&H Dr. B. Saravanakumar, ASP/PHYSICS	
Electrical & Communication Engineering Research Labs (ECE, EEE, ACT & VLSI)	Dr.R.Sudhakar, HoD/ECE Dr.K. Vijayakumar, HoD/EEE	
Advanced Computing Research Labs (IT, CSE, MCA, AI&DS, AIML and Cy.Sec)	Dr. D. Sivagansean, HoD/CSE Dr.L.Meenachi, HoD/IT Dr. R. Muthusami, HoD/MCA Dr.P.Vivekanandan, HoD/ AIML & Cy.Sec Dr. J Ramprasath, HoD/ AI&DS	

9. Safety requirements like maintaining hazardous chemicals, utility access, electrical safety, waste disposal etc. are ensured while establishing research labs.
10. It was recommended to establish the University Instrumentation centre with common research instruments/ equipment's such as Dielectric loss measurements, thermal conductivity measurements, impedance analyzer, EMI Shielding etc.
11. The workstation and PCs for research labs shall be purchased under the institution common separate budget.
12. The workload for the research faculty team and TRA are suggested and given as follows


Research Lab Faculty	1 Theory course + 1 Lab course	<ul style="list-style-type: none"> Continuous 3 working days to be left free to carry out research Flexible working time shall be provided
Teaching Research Assistant (TRA)	1 Theory course or 1 Lab course	

The session was successfully organized by the institute-level R&I coordinators Mr.V.Gurunathan & Mr.S.Syed Masoodhu. The event was well-received, with faculty and researchers gaining valuable knowledge on establishment of research laboratories and enhancing their research activities.

Poster of the event:




NM 100
1923 - 2023
Anniversary



MCOET

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Office of Dean Research & Innovation




4 QUALITY EDUCATION

Knowledge Sharing Session



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE




Dr. Prof. M. Alagar
Research Mentor,
Polymer Engineering Laboratory,
Department of Chemistry,
PSG Institute of Technology & Applied Research,
Coimbatore

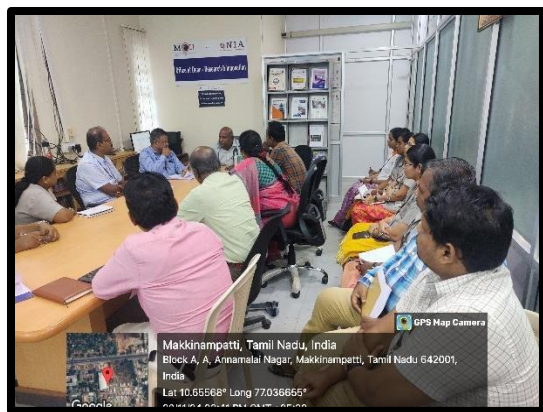
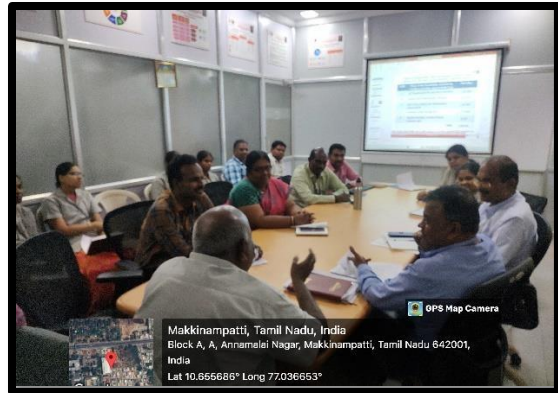
“Establishment of Research Lab”
Date: 22/11/2024
Time: 09.30 a.m. - 04.30 p.m.
Venue: A117, Dean R&I Conference Hall

All are cordially Invited !!!

Collaborate, Innovate, Elevate: Research Excellence...



Photos taken during the Session:



S. Prunkareddy
Dean R&I

Prunkareddy
Principal

**--Sd--
Secretary**